

FIG. 1

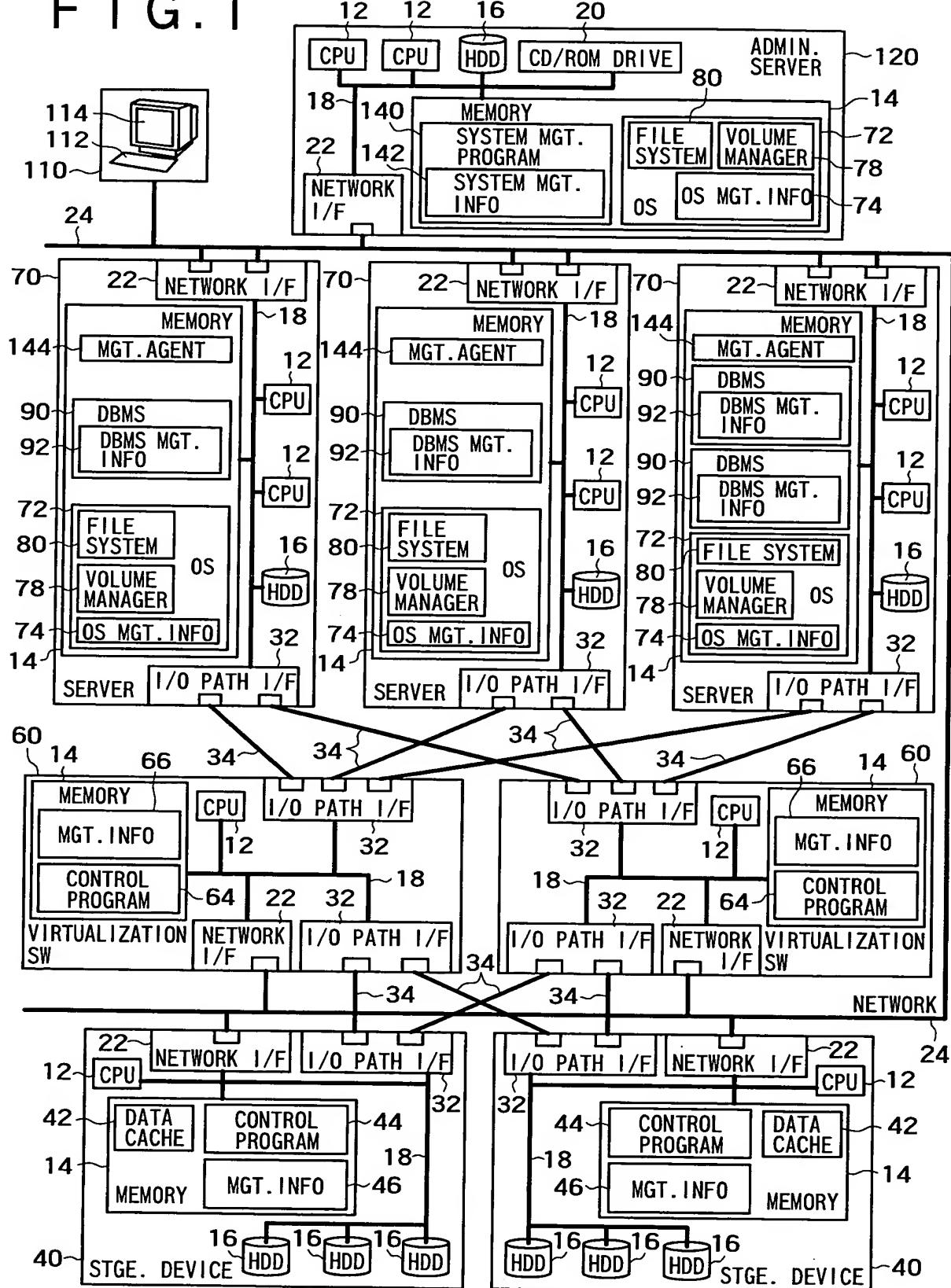
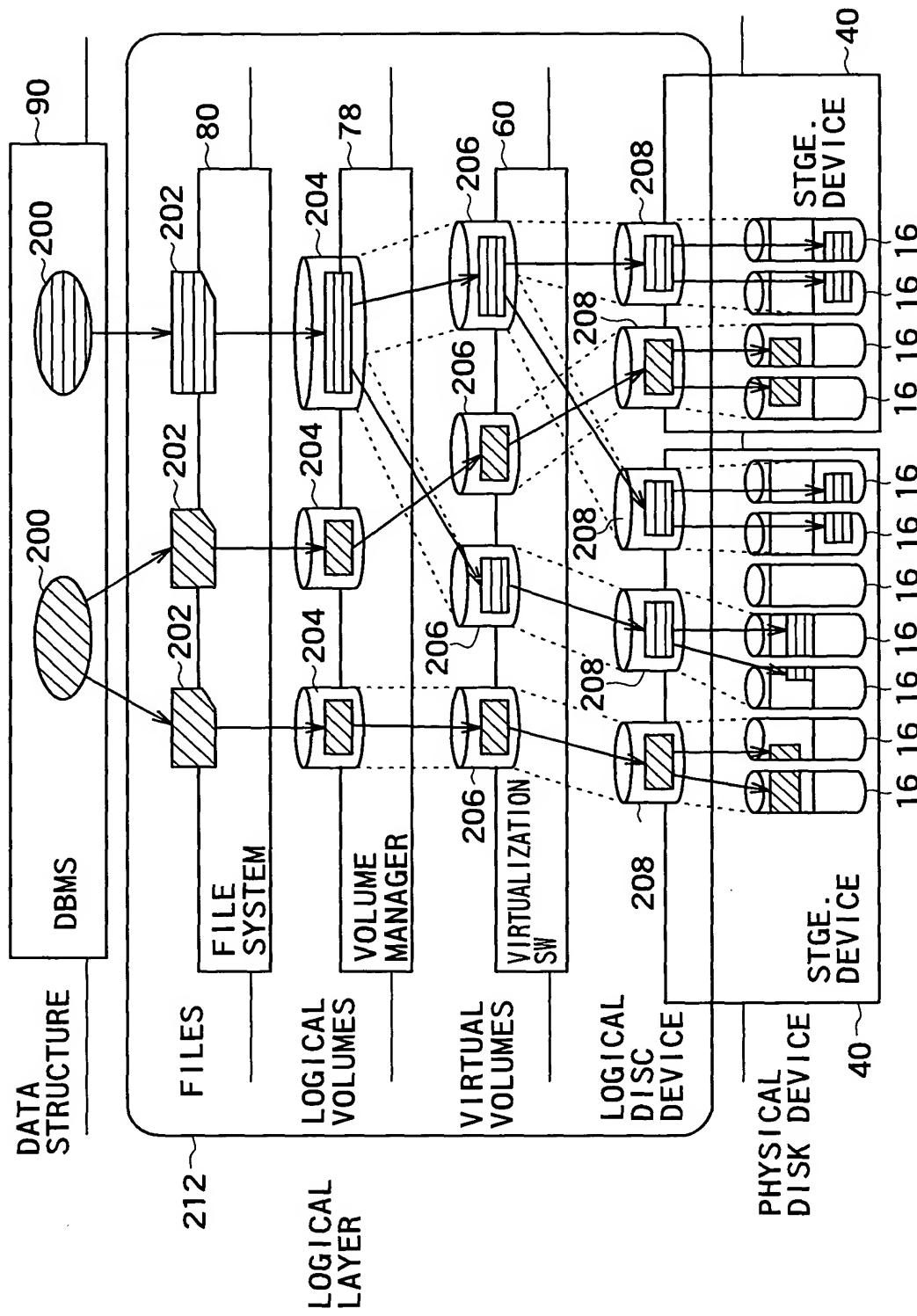


FIG. 2



F | G. 3

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UPPER VIRTUAL STRUCTURE AREA INFO				CORR. LOWER MGT STRUCTURE AREA INFO				AREA MAPPING INFO	
VIRTUAL STRUCTURE ID	INTER-STRUCTURAL AREA	MULTIPLEX ID	VIRTUALIZATION MECHANISM ID	MGT. STRUCTURE ID	INTER-STRUCTURAL AREA				
Upper0	0-10239		LowApp0	Lower0	0-10239				
	10240-20479		LowApp1	Lower1	0-10239				
Upper1	0-10239	DATA 0	LowApp0	Lower0	10240-20479				
		DATA 1	LowApp1	Lower1	10240-20479				
Upper2	0-10239	PASS 0	LowApp2	Lower0	0-10239				
		PASS 1	LowApp2	Lower1	0-10239				
				:	:				

300

304

302

310

308

306

F | G . 4

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CASHE GROUP ID	CGrp0	CGrp1	...	462
CASHE QUANTITY	1024MB	2048MB	...	466
LU ID	LU0 , LU2 , LU3 , ...	LU1	...	364

CASH GROUP INFO ~ 460

FIG. 5

346 348 342

DATA STGE.LOCATION		
	DATA FILE PATHNAME	BLOCK NUMBER
T1	/dev/rdsk/Ivol0	0-499
	/dev/rdsk/Ivol0	2000-2499
T2	/dev/rdsk/Ivol0	500-799
T3	/dev/rdsk/Ivol1	500-799
⋮	⋮	⋮

DATA STGE.LOCATION INFO

FIG. 6

346 352 354 350

DATA STRUCTURE NAME	ATTRIBUTE NAME	MAX SIZE
T1	ID1	12 Bytes
	ID2	10 Bytes
⋮	⋮	⋮
T2	ID2	10 Bytes
	⋮	⋮

ATTRIBUTE DATA SIZE INFO

F | G. 7

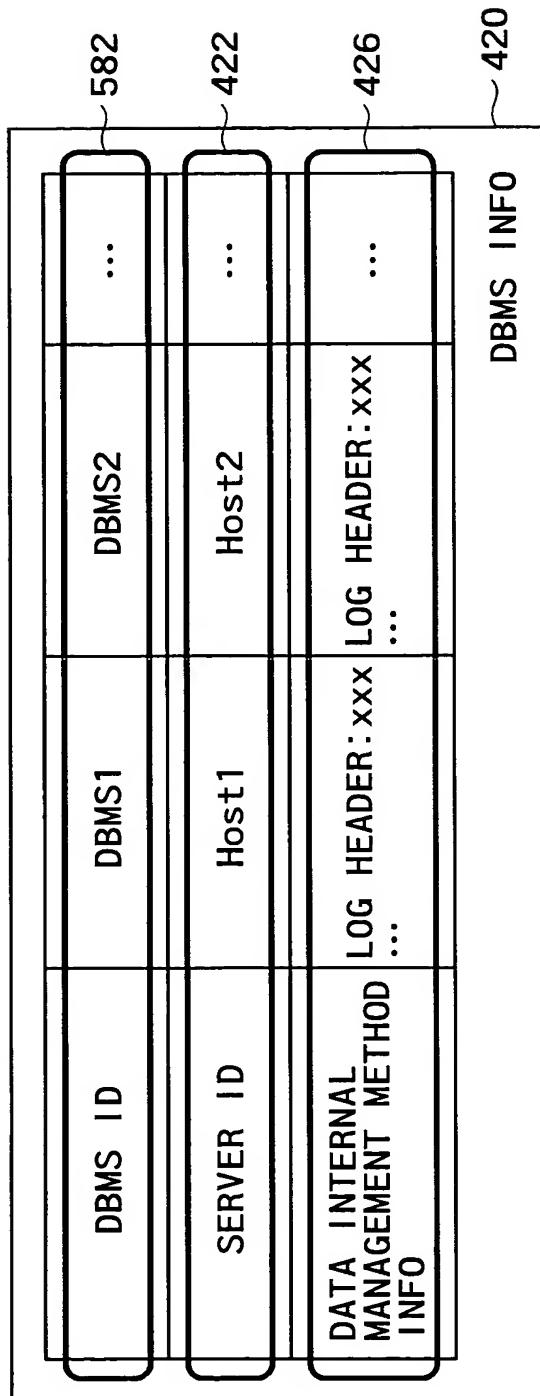


FIG. 8

PROCESS ID	EXECUTION RATIO	SQL STATEMENT TO BE EXECUTED	EXPECTED REPETITION RATE	
			MAX. TIME REQD. FOR RE-RUN: 100 PROCESSES	RE-RUN RATE: 100 SEC
1	0.3	SELECT T1 ID1, T2, ID2 FROM T1, T2, T3 WHERE... FOR UPDATE ; UPDATE T4 SET att3=: input WHERE... ;	1	2.8
2	0.25	SELECT T3 att3, T4 att2 FROM T3, T4 WHERE... ;	1	8.64
432	862		860	850
				PROCESS DESIGN INFO

FIG. 9

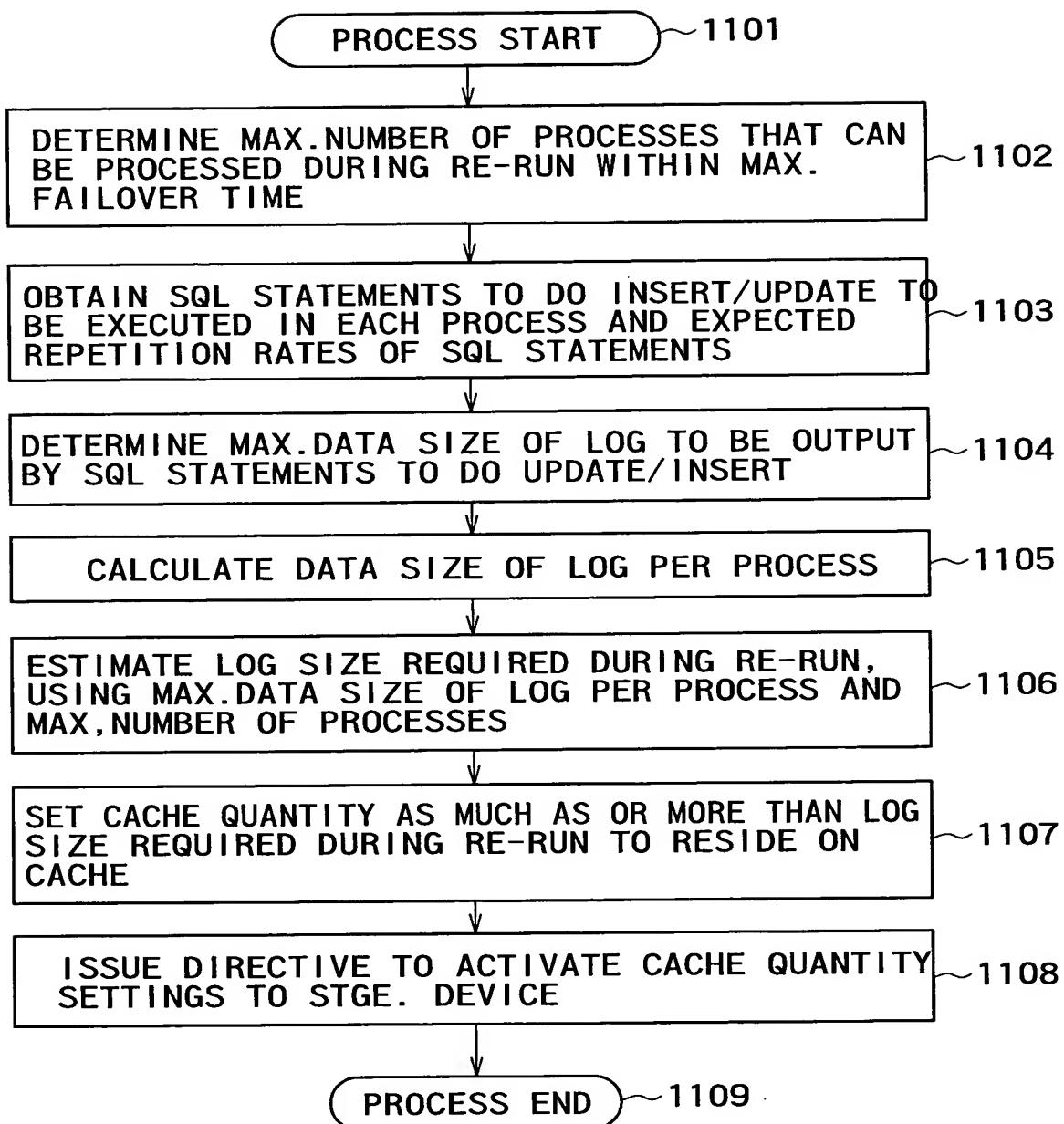


FIG. 10

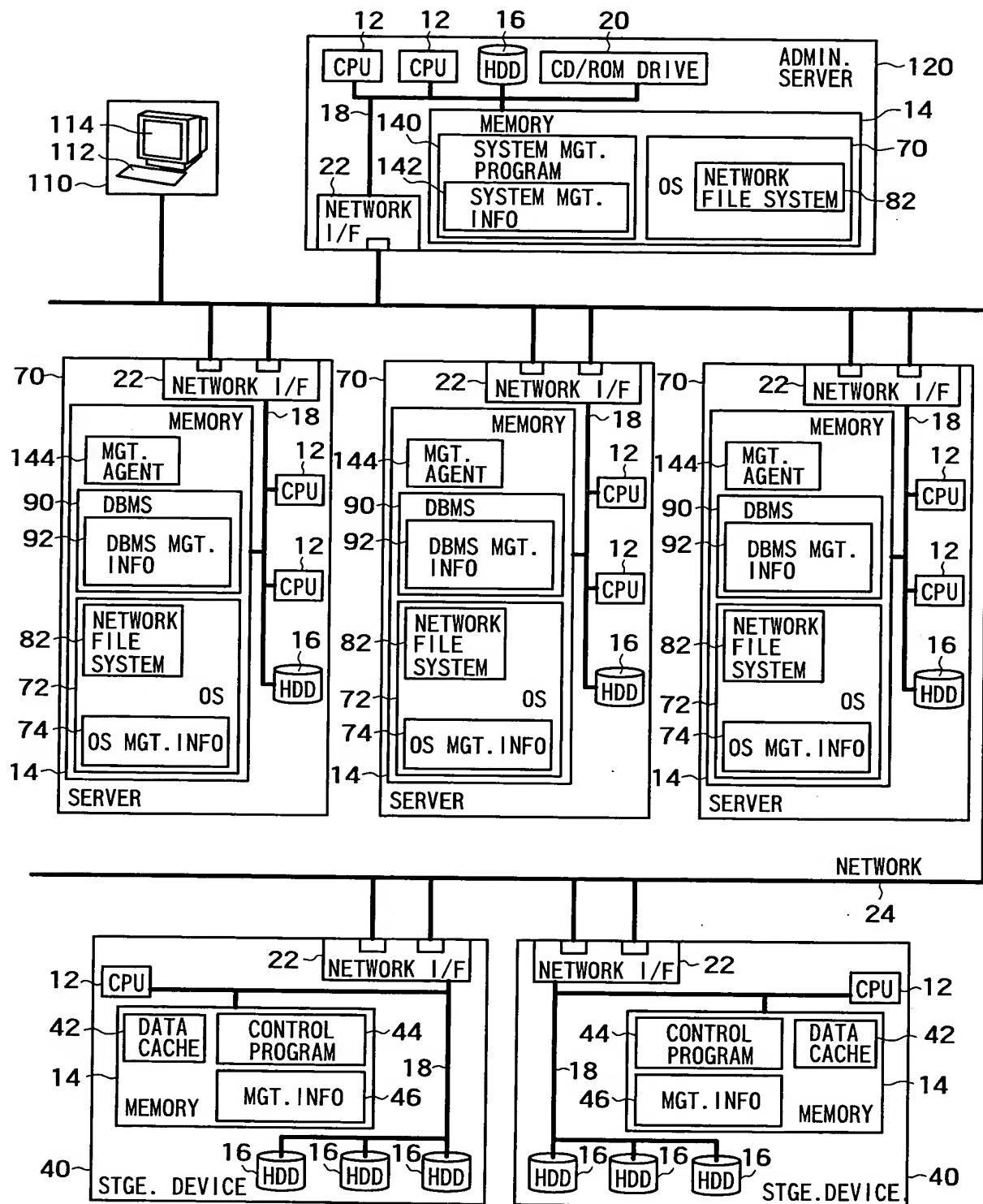


FIG. 11

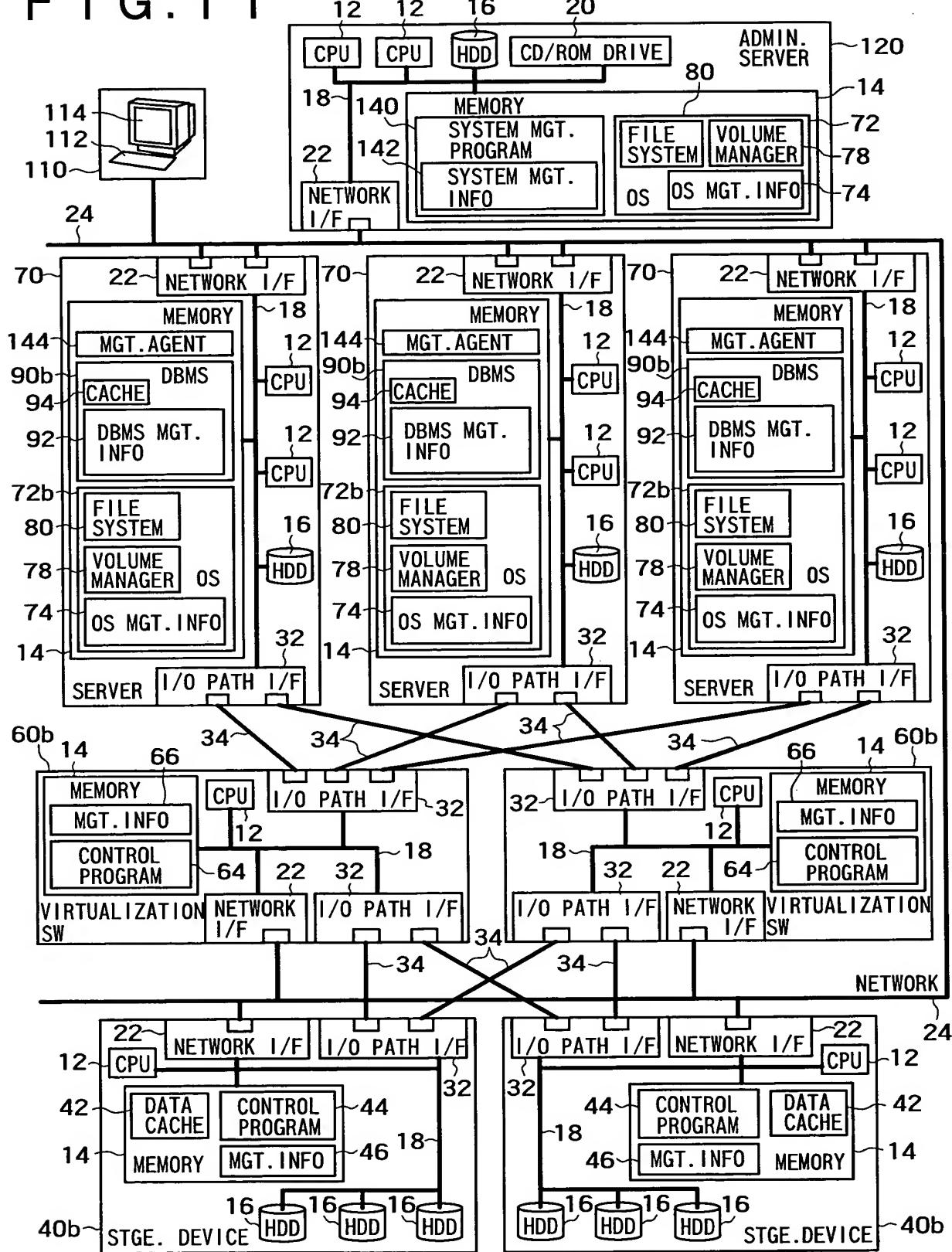
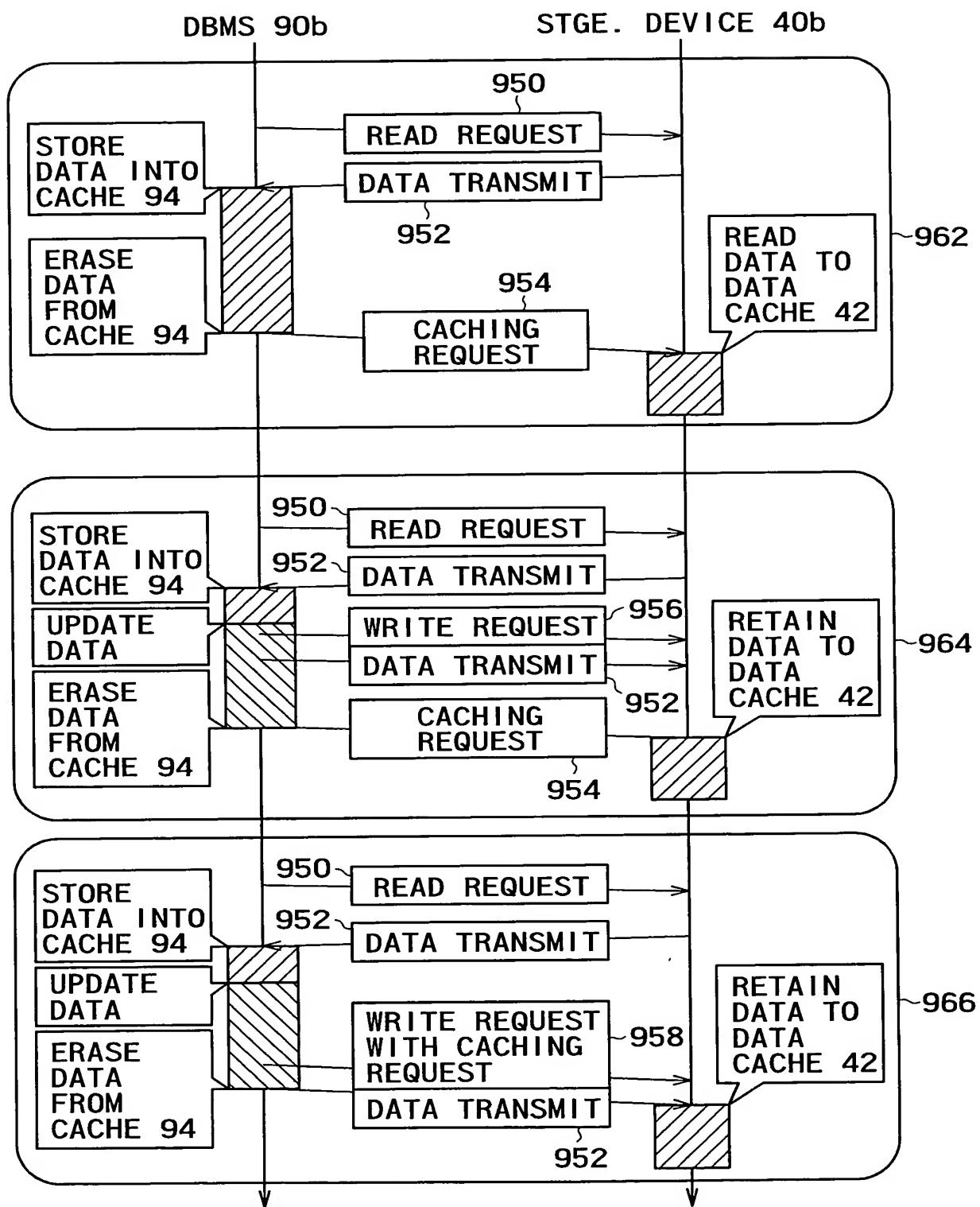


FIG. 12



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F I G . 1 3

CACHE GROUP ID	CGrp0	CGrp1	...	462
CACHE SPACE	1024MB	2048MB	...	466
LU ID	LU0, LU2, LU3, ...	LU1	...	364
HINT FUNCTION	OFF	ON	...	468
CACHE GROUP INFO				

460b

F I G . 1 4

DATA STRUCTURE NAME	T1	T2	...	346
DATA PAGE SIZE	16KB	8KB	...	702
DATA PAGES	61897	78783	...	704
CACHE QUANTITY	1024 PAGES	2048 PAGES	...	466
TABLE DATA SIZE INFO				

700

FIG. 15

DATA STRUCTURE NAME	Ind1-1	Ind2-1	...	346
CORR. TABLE NAME	T1	T2	...	712
DATA PAGE SIZE	8KB	8KB	...	702
DATA PAGES	3782	6782	...	704
LeafNODE PAGES	2898	4890	...	714
CACHE QUANTITY	1452 PAGES	2400 PAGES	...	466
ATTRIBUTE TO SPEACH	ID1 (ID1, ID2)	ID2	...	716
EXPECTED TUPLES	5.5	1	1	...
B-Tree INDEX INFO				~710

FIG. 16

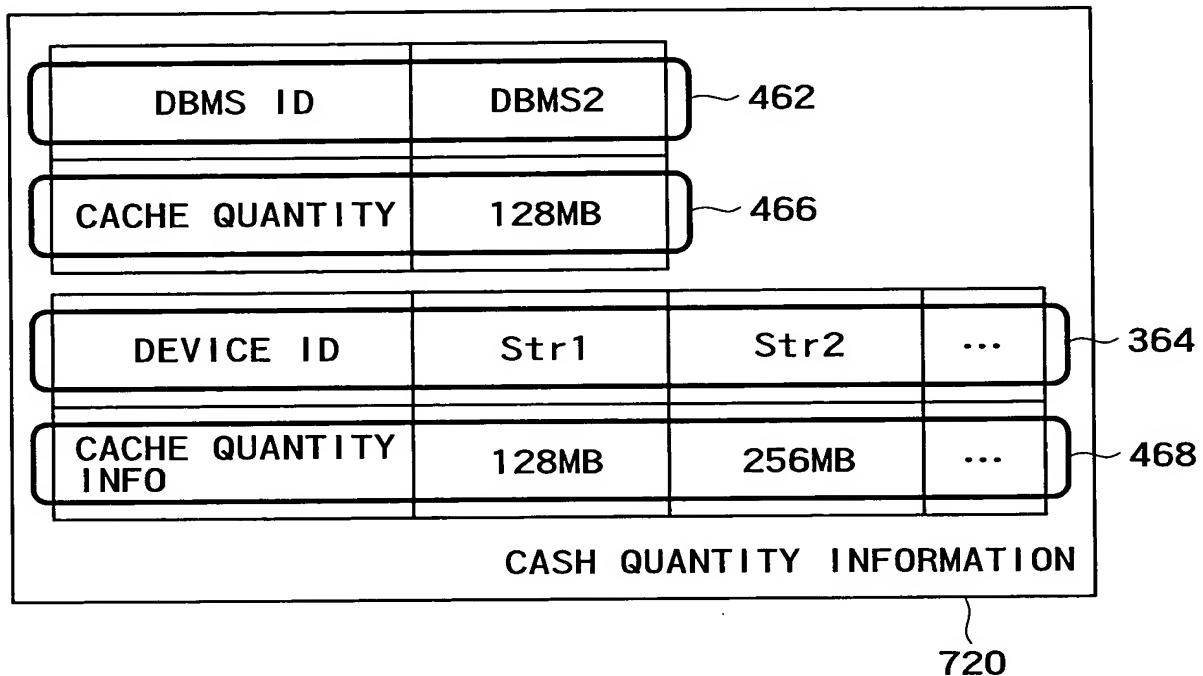


FIG. 17

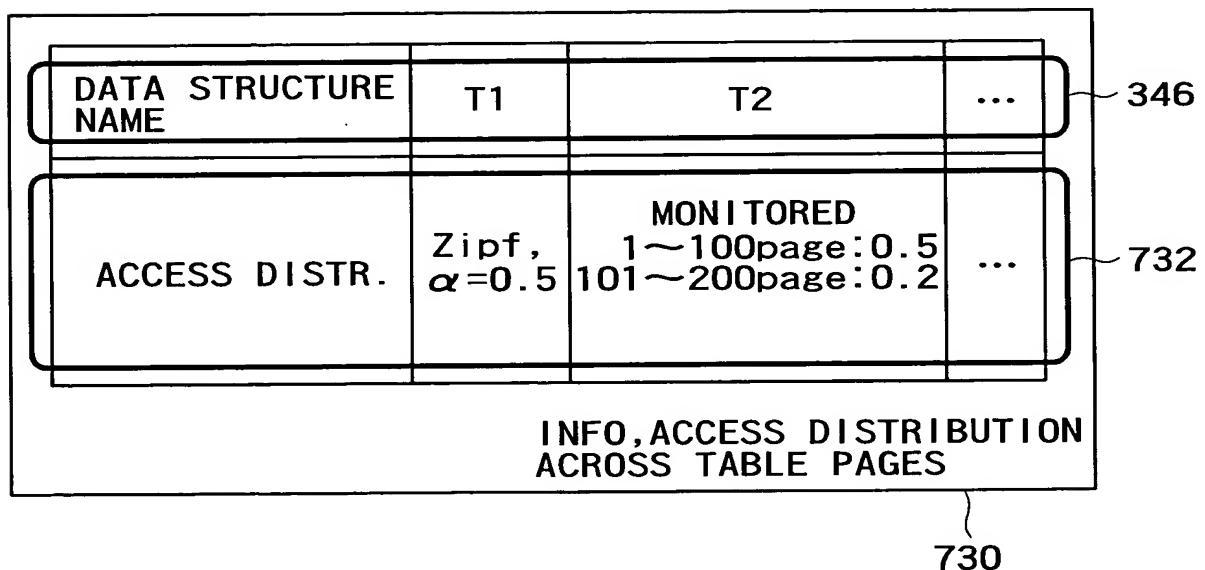


FIG. 18

PROCESS ID	DATA STRUCTURE NAME	EXPECTED DATA PAGES TO ACCESS	
		TOTAL	UPDATE
1	T1	9	6
	Ind1-1	9	0
	T2	1	1
	⋮	⋮	⋮
2	T3	4	0
	⋮	⋮	⋮
	⋮	⋮	⋮

INFO, EXPECTED DATA PAGES TO ACCESS

780

FIG. 19

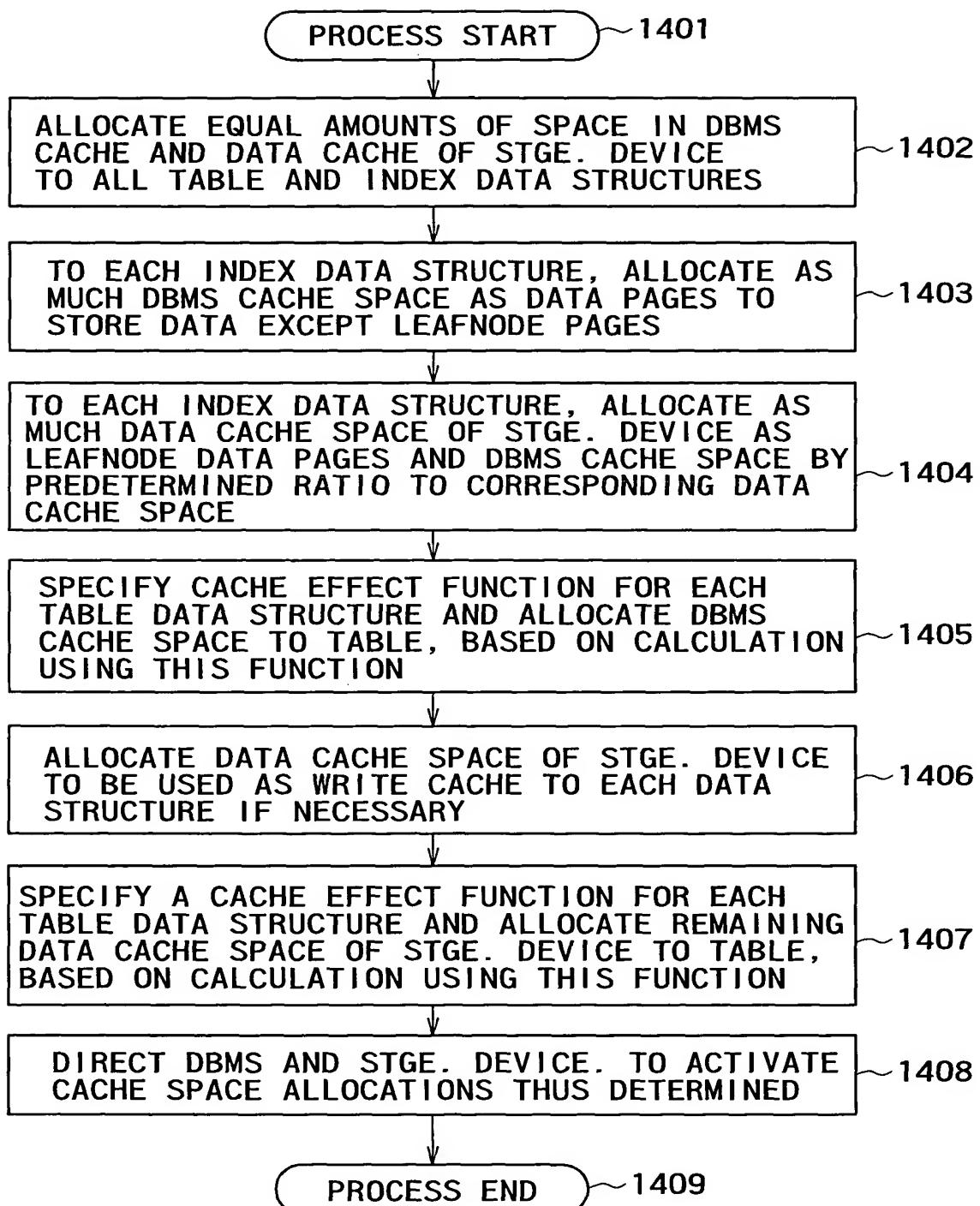


FIG. 20

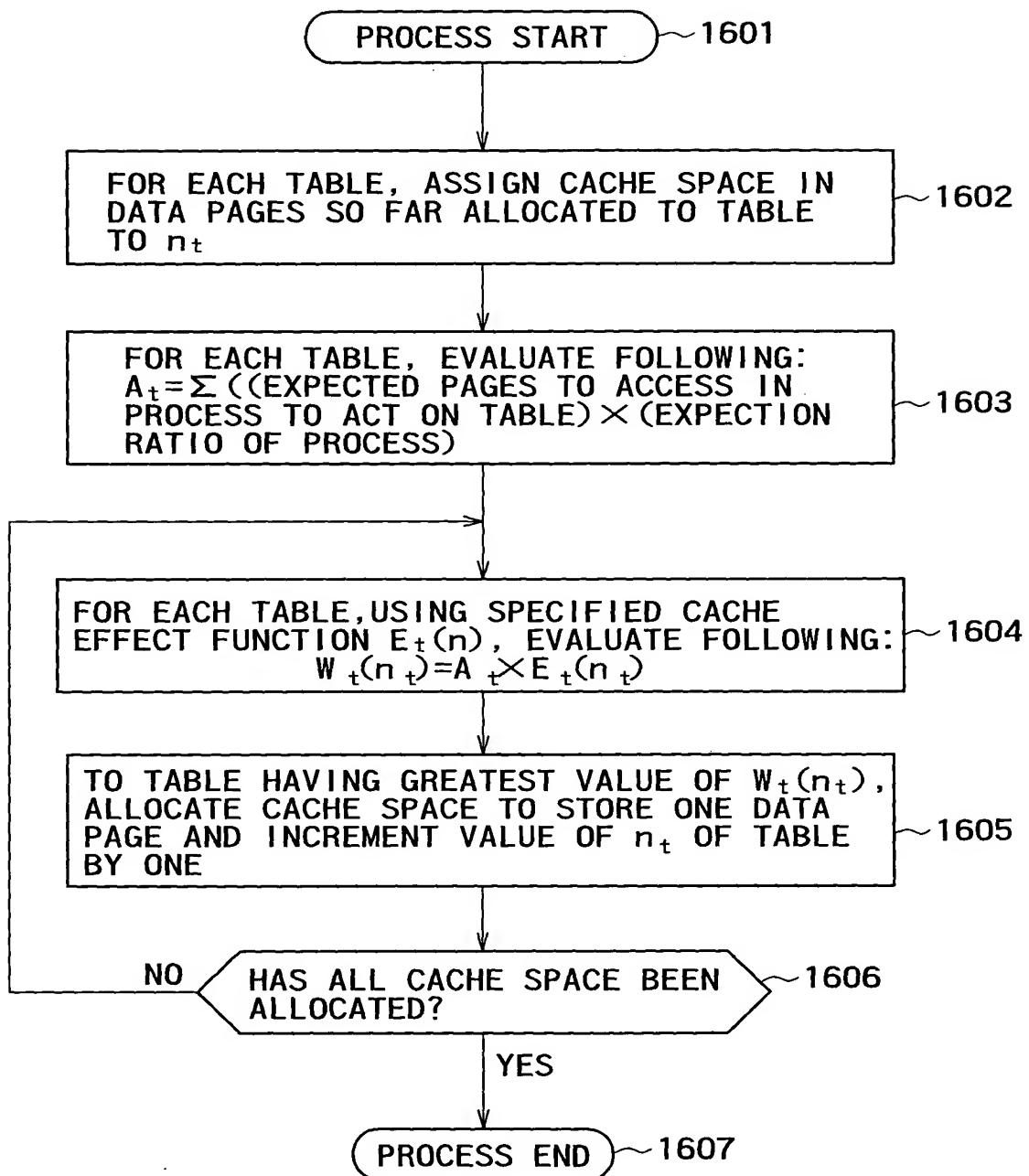


FIG. 21

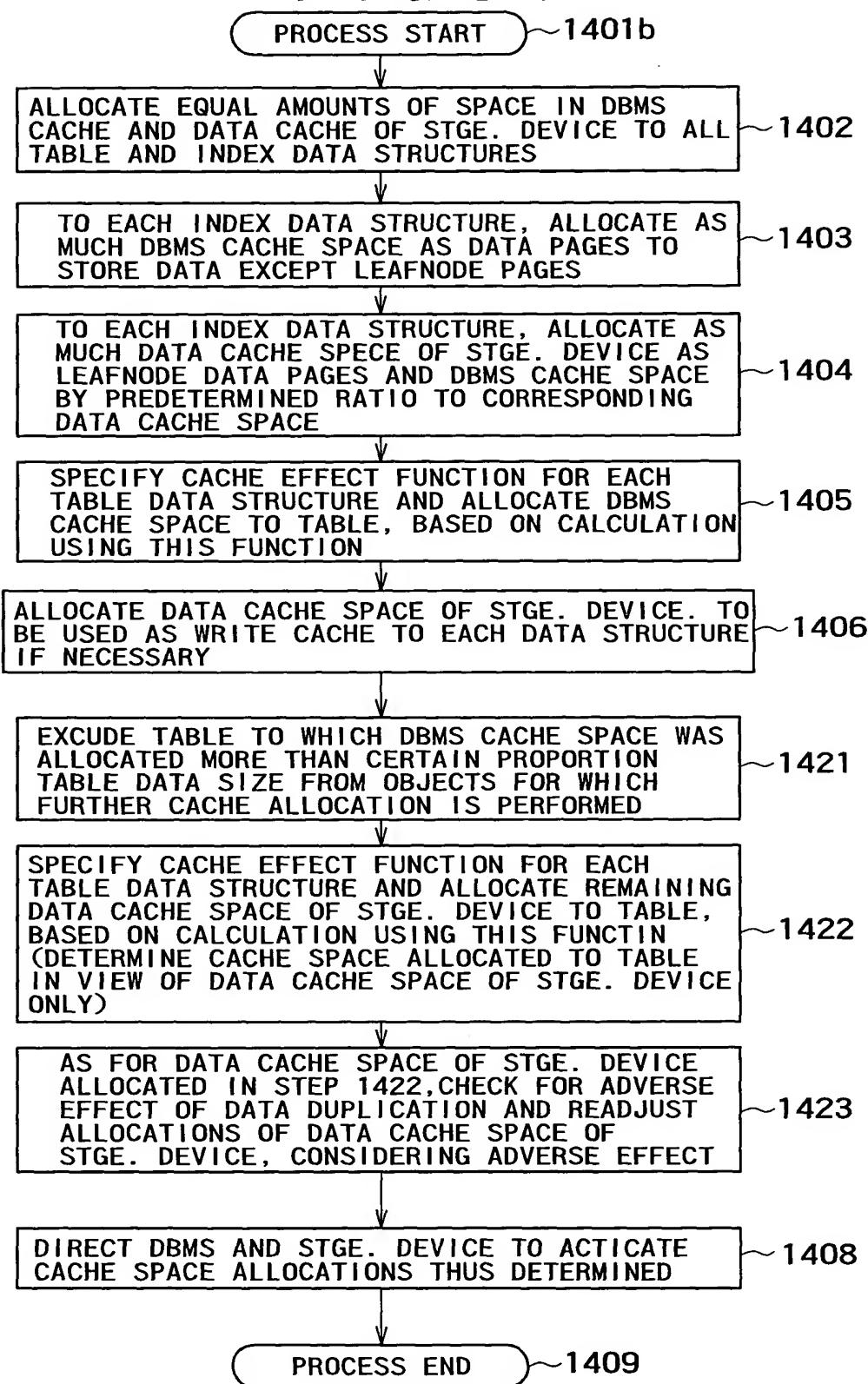
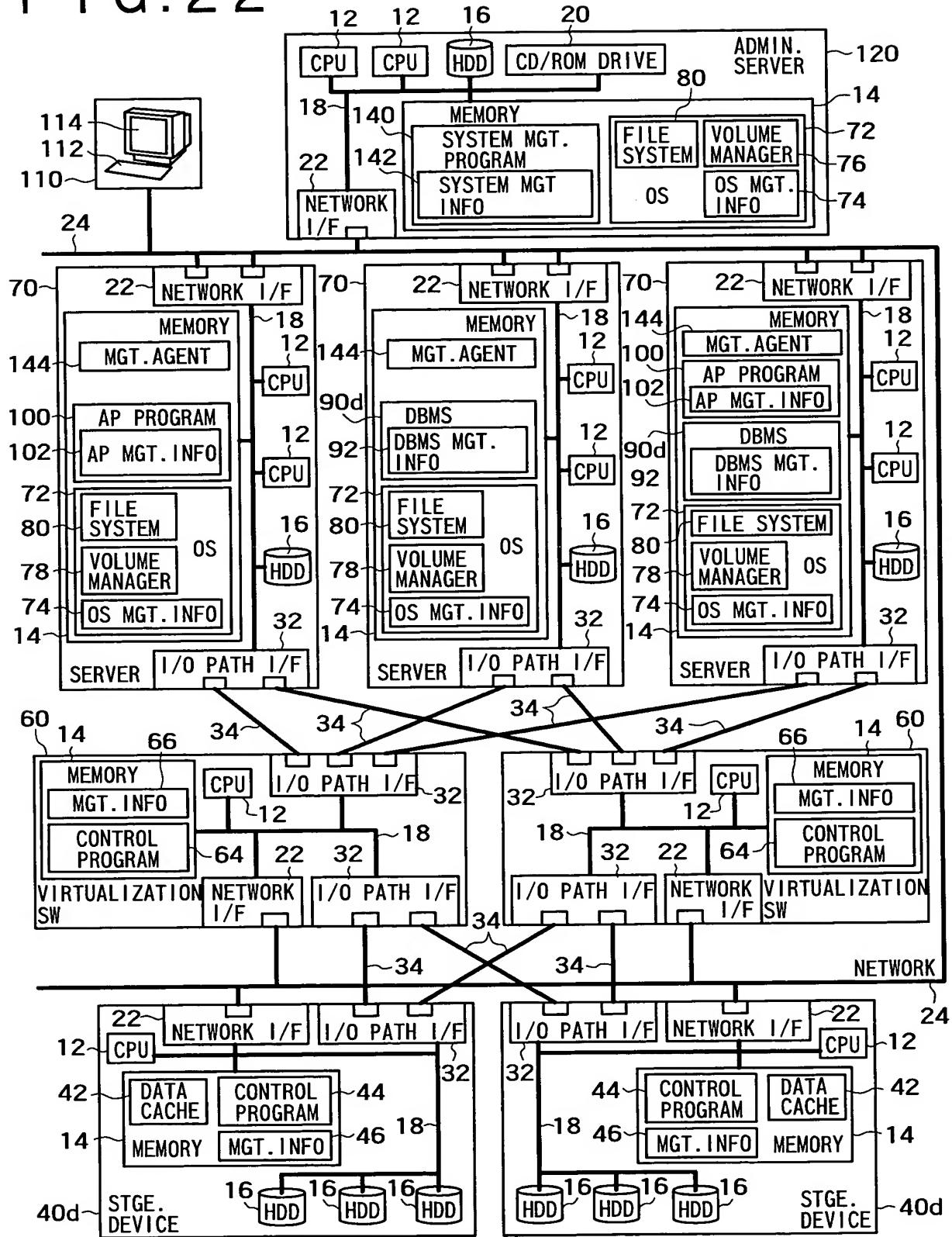


FIG. 22



F | G. 23

REAL MGT. SUBCACHE PARTITIONS:R		VIRTUAL MGT. SUBCACHE PARTITIONS:V			
LU ID	LU 0	LU 1	...	364	
I/O TYPE	Read	Write	Read	Write	...
CUMULATIVE COUNT OF EXECUTION	489789	78978	168799	789	...
TOTAL OF REAL HITS	138978	78978	48958	789	...
1ST PARTI- TION	0	-	342	-	...
CUMULATIVE COUNT OF CACHE HITS	2870	-	6869	-	...
(V+R)TH PARTI- TION	7987	-	4789	-	...

502 ~ 504 362 ~ 368

CACHE MONITORED STATISTICS INFO

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F I G . 2 4

DBMS RESOURCE NAME	Log Writer	Dic	Tbl1	...
CUMULATIVE COUNT OF WAIT	7809	36	0	...
DBMS MONITORED STATISTICS INFO				

412 414
410

F I G . 2 5

PROCESS ID	1	2	...
CUMULATIVE COUNT OF EXECUTION	48978	7897	...
CUMULATIVE PROCESS EXECUTION TIME	102956	24637	...
ONLINE JOBS MONITORED STATISTICS INFO			

432 368
396
430

FIG. 26

EUIP. ID	Storage 0	Storage 1	...
HDD ID	HDD0, HDD1, ...	HDD20, HDD21,
READ HIT	0.8	0.8	...
READ MISS	5.5	8	...
ACCESS PERFORMANCE INFO	1.2	1.2	...
WRITE HIT	12	17	...
WRITE MISS			
HDD PERFORMANCE INFO			~612
572			394
614			

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FIG. 27

MONITORED POINT ID				Host0-Port0	Host0-Port0	...	514
WHAT IS MONITORED				CUMULATIVE COUNT OF EXECUTION	CUMULATIVE DATA AMOUNT TRANSFERRED	...	516
LAST DATA COLLECTION INFO	TIME	'02/12/14 13:00:00	'02/12/14 13:00:00	7907209	50298237893	...	518
	COLLECTED DATA NUMBER						
HISTORY DATA ITEM				AVG. IOPS	Avg. DATA AMOUNT TRANSFERRED (MBPS)	...	522
HISTORY INFO	RECORD 0	PERIOD	'02/12/1 00:00:00~ 00:05:00	'02/12/1 00:00:00~ 00:05:00	7.6	...	524
	RECORD 0	AVG.	152			...	
	RECORD 0	MAX.	203	10.2		...	
HISTORY INFO	RECORD 1	PERIOD	'02/12/1 00:05:00~ 00:10:00	'02/12/1 00:05:00~ 00:10:00	9.5	...	520
	RECORD 1	AVG.	189			...	
	RECORD 1	MAX.	258	12.9		...	
MONITORING HISTORY INFO				510

FIG. 28

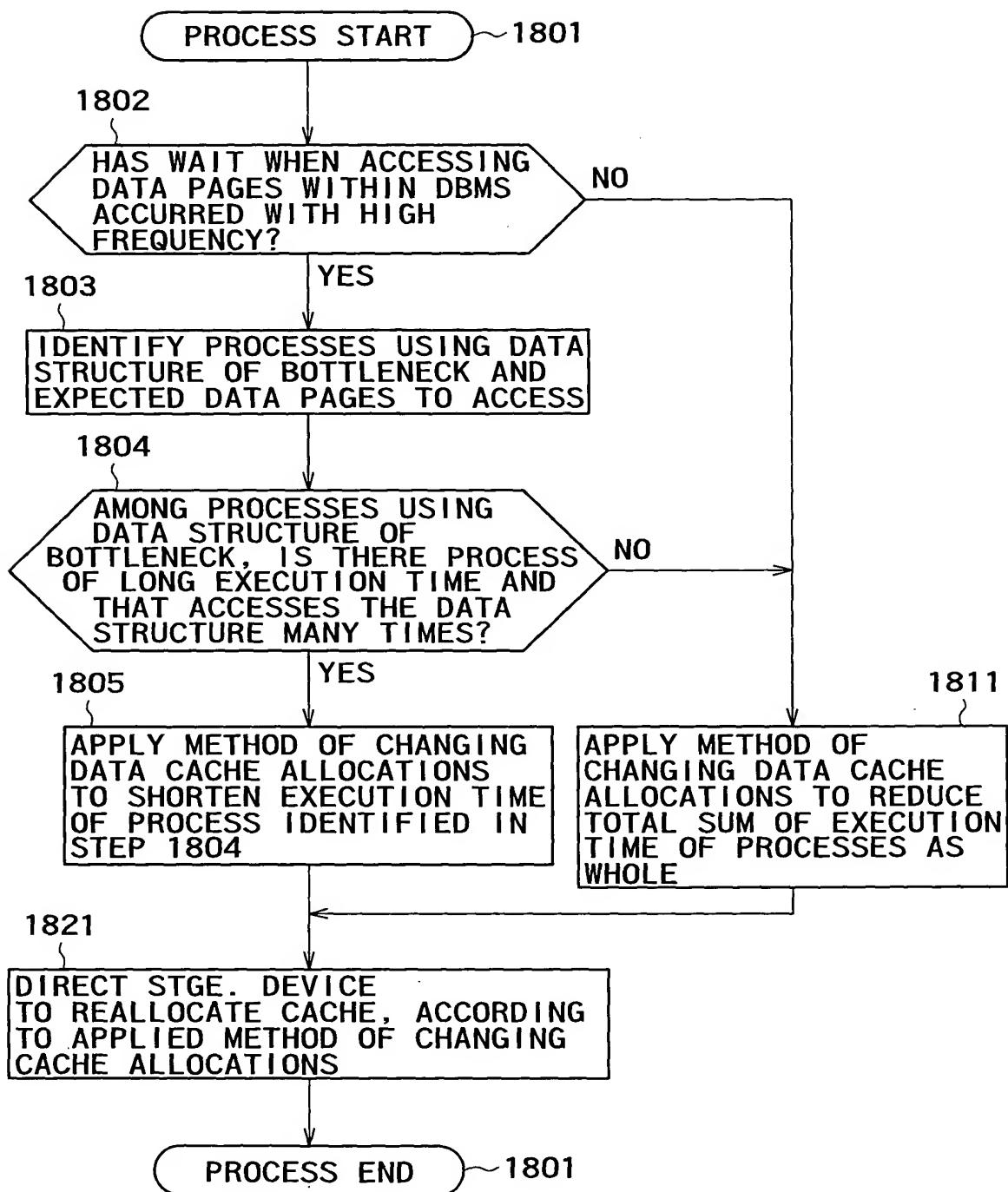


FIG. 29

